

In the Specification

Please amend the paragraph starting at page 11, line 26, and beginning with "In accordance with one embodiment," as follows:

A. In accordance with one embodiment, ~~modulator 74~~ modulator 72 modulates the phrase, frequency or other suitable non-intensity characteristic of the carrier signal with the data signal 74. As previously described, this generates a non-intensity optical information signal 24 with poor susceptibility to cross talk due to XGM in long-haul and other transmission systems using bi-directional DRA or other distributed amplification. Details of the carrier wave, frequency modulation of the carrier wave and phase modulation of the carrier wave are illustrated in FIGURES 3A-C.